

Date: Sun, 12 Dec 93 18:43:34 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #1456  
To: Info-Hams

Info-Hams Digest                      Sun, 12 Dec 93                      Volume 93 : Issue 1456

Today's Topics:

10-Codes used by law enforcement  
2m meteor skeds wanted  
Daily Summary of Solar Geophysical Activity for 09 December  
Life is too short WITH 2 KW!!!!  
Scratchi, January, 1960  
TM732A packet hookup???  
Updated Call Sign allocations  
Upgrading from old tech liscense

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----  
Date: Fri, 10 Dec 1993 14:52:22  
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!gatech!  
destroyer!news1.oakland.edu!rcsuna.gmr.com!revjcs.gmr.com!jsimmer@network.ucsd.edu  
Subject: 10-Codes used by law enforcement  
To: info-hams@ucsd.edu

In article <6m4aec1w165w@opus-ovh.spk.wa.us> bmork@opus-ovh.spk.wa.us (Brian)  
writes:

List of 10-Codes deleted....

Note that this is the suggested use of the 10-codes. If a police department  
rarely gets a 10-89 (bomb threat) they could use it for another purpose.  
They can also disregard the list and make up there own 10-Code.

Joe  
jsimmer@cmsa.gmr.com  
>--->Brian  
Mork Internet bmark@opus-ovh.spk.wa.us> . . . . Amateur Radio (AX.25)  
ka9snf@wb7nnf.#spokn.wa.usa>... . . . USMail 6006-B Eaker, Fairchild, WA  
99011

-----  
Date: 12 Dec 93 18:47:20 GMT  
From: ogicse!emory!swrinde!cs.utexas.edu!howland.reston.ans.net!  
europa.eng.gtefsd.com!not-for-mail@network.ucsd.edu  
Subject: 2m meteor skeds wanted  
To: info-hams@ucsd.edu

I'm looking for skeds for the Geminids meteor shower....please e-mail  
today or tonight and we can meet on 75m to coordinate.

==== Dave Pascoe KM3T ===== km3t@mathworks.com =====

-----  
Date: Thu, 9 Dec 1993 21:06:58 MST  
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!math.ohio-state.edu!  
news.cyberstore.ca!nntp.cs.ubc.ca!alberta!adec23!ve6mgs!usenet@network.ucsd.edu  
Subject: Daily Summary of Solar Geophysical Activity for 09 December  
To: info-hams@ucsd.edu

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DAILY SUMMARY OF SOLAR GEOPHYSICAL ACTIVITY

09 DECEMBER, 1993

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(Based In-Part On SESC Observational Data)

SOLAR AND GEOPHYSICAL ACTIVITY INDICES FOR 09 DECEMBER, 1993  
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!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 343, 12/09/93  
10.7 FLUX=098.4 90-AVG=097 SSN=079 BKI=0000 0001 BAI=000  
BGND-XRAY=B1.5 FLU1=1.4E+05 FLU10=1.1E+04 PKI=2212 2212 PAI=006

BOU-DEV=004,004,004,002,002,002,002,005    DEV-AVG=003 NT    SWF=00:000  
 XRAY-MAX= B4.9 @ 0215UT    XRAY-MIN= B1.3 @ 2359UT    XRAY-AVG= B1.8  
 NEUTN-MAX= +002% @ 0635UT    NEUTN-MIN= -002% @ 2345UT    NEUTN-AVG= -0.2%  
 PCA-MAX= +0.1DB @ 0955UT    PCA-MIN= -0.4DB @ 1335UT    PCA-AVG= -0.0DB  
 BOUTF-MAX=55354NT @ 0201UT    BOUTF-MIN=55341NT @ 1747UT    BOUTF-AVG=55350NT  
 GOES7-MAX=P:+000NT@ 0000UT    GOES7-MIN=N:+000NT@ 0000UT    G7-AVG=+067,+000,+000  
 GOES6-MAX=P:+118NT@ 1939UT    GOES6-MIN=N:-075NT@ 0952UT    G6-AVG=+088,+028,-048  
 FLUXFCST=STD:095,095,095;SESC:095,095,095 BAI/PAI-FCST=005,010,010/010,015,015  
 KFCST=1112 3211 1223 4211 27DAY-AP=005,008 27DAY-KP=2221 2111 2132 3221  
 WARNINGS=  
 ALERTS=  
 !!END-DATA!!

NOTE: The Effective Sunspot Number for 08 DEC 93 was 37.0.  
 The Full Kp Indices for 08 DEC 93 are not available.

#### SYNOPSIS OF ACTIVITY

Solar activity was very low. Flare activity was minimal.  
 A new region may be coming into view near N07, but it is as yet unnumbered.

Solar activity forecast: solar activity is expected to be very low.

STD: A full-disk Yohkoh x-ray image has been appended to this report which shows the increased emissions near N07 and a narrow southern-hemisphere coronal hole which has not yet fully rotated into view around the west limb.

The geomagnetic field was quiet. Yesterday's storm abruptly gave way to the very quiet conditions seen now.

Geophysical activity forecast: the geomagnetic field is expected to be quiet to unsettled.

Event probabilities 10 dec-12 dec

Class M	01/01/01
Class X	01/01/01
Proton	01/01/01
PCAF	Green

Geomagnetic activity probabilities 10 dec-12 dec

A. Middle Latitudes

Active	15/15/15
Minor Storm	05/05/05
Major-Severe Storm	01/01/01

B. High Latitudes

Active	15/20/20
Minor Storm	10/10/10
Major-Severe Storm	01/01/01

HF propagation conditions were near-normal over all regions. However, global MUFs are depressed between 20 and 30 percent below normal. Similar conditions are expected to persist over the next 72 hours, through 12 December inclusive. There are still reports of VHF openings in the Australian regions. FM reception was reported in Brisbane and Pakenham on frequencies as high as 100 MHz. These openings are likely the result of persistent sporadic-E.

#### COPIES OF JOINT USAF/NOAA SESC SOLAR GEOPHYSICAL REPORTS

=====

#### REGIONS WITH SUNSPOTS. LOCATIONS VALID AT 09/2400Z DECEMBER

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-----
NMBR LOCATION  LO  AREA  Z   LL   NN MAG TYPE
7627  S15W51  108  0000 AXX  00  001 ALPHA
7629  S21W26  083  0090 CAO  09  014 BETA
7630  S09W27  084  0080 CAO  09  012 BETA
7631  N15W17  074  0000 AXX  01  001 ALPHA
7632  N07E72  345  0000 AXX  01  001 ALPHA

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#### REGIONS DUE TO RETURN 10 DECEMBER TO 12 DECEMBER

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NMBR LAT    LO
NONE

```

#### LISTING OF SOLAR ENERGETIC EVENTS FOR 09 DECEMBER, 1993

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-----
BEGIN  MAX  END  RGN   LOC   XRAY  OP 245MHZ 10CM  SWEEP SWF
      NO EVENTS OBSERVED

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#### POSSIBLE CORONAL MASS EJECTION EVENTS FOR 09 DECEMBER, 1993

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-----
                ISOLATED HOLES AND POLAR EXTENSIONS
      EAST   SOUTH  WEST   NORTH  CAR  TYPE  POL  AREA  OBSN
53   S30E72 S30E72 S08E30 S04E44  011  ISO  NEG   010 10830A

```

# SUMMARY OF FLARE EVENTS FOR THE PREVIOUS UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
08 Dec:	0146	0151	0156	C1.0	SF	7629	S22E01			
	0429	0433	0435	B3.9						
	0548	0558	0604	B6.2						
	0921	0925	0928	B3.4						
	0930	0941	0948	C1.8	SF	7629	S22W04			
	1012	1018	1023	B6.9	SF	7627	S24W21			
	1129	1134	1136	B5.6						
	1215	1218	1220	B6.3						
	1223	1226	1231	B4.8						
	1458	1503	1508	B7.9	SF	7629	S22W08			
	1756	1800	1803	B3.5	SF	7629	S21W08			
	1819	1823	1827	B3.0						
	1937	1941	2013	B8.3	SF	7630	S10W11			
	B2053	U2053	A2056		SF	7629	S21W09			

# REGION FLARE STATISTICS FOR THE PREVIOUS UTC DAY

	C	M	X	S	1	2	3	4	Total	(%)
Region 7627:	0	0	0	1	0	0	0	0	001	( 7.1)
Region 7629:	2	0	0	5	0	0	0	0	005	(35.7)
Region 7630:	0	0	0	1	0	0	0	0	001	( 7.1)
Uncorrelated:	0	0	0	0	0	0	0	0	007	(50.0)

Total Events: 014 optical and x-ray.

# EVENTS WITH SWEEPS AND/OR OPTICAL PHENOMENA FOR THE LAST UTC DAY

Date	Begin	Max	End	Xray	Op	Region	Locn	Sweeps/Optical Observations
NO EVENTS OBSERVED.								

## NOTES:

All times are in Universal Time (UT). Characters preceding begin, max, and end times are defined as: B = Before, U = Uncertain, A = After. All times associated with x-ray flares (ex. flares which produce associated x-ray bursts) refer to the begin, max, and end times of the x-rays. Flares which are not associated with x-ray signatures use the optical observations to determine the begin, max, and end times.

Acronyms used to identify sweeps and optical phenomena include:

II	= Type II Sweep Frequency Event
III	= Type III Sweep
IV	= Type IV Sweep
V	= Type V Sweep
Continuum	= Continuum Radio Event
Loop	= Loop Prominence System,
Spray	= Limb Spray,
Surge	= Bright Limb Surge,
EPL	= Eruptive Prominence on the Limb.

SPECIAL INSERT: CURRENT X-RAY EMISSIONS FROM THE JAPANESE YOHKOH SPACECRAFT

08 December 1993, 20:10 UTC

North

[illegible]



-----  
Date: Thu, 09 Dec 93 13:53:12 PST  
From: netcomsv!netcomsv!micromed!brett@decwrl.dec.com  
Subject: Scratchi, January, 1960  
To: info-hams@ucsd.edu

dm\_johnson@dave.enet.dec.com (Dennis Johnson) writes:

>  
>  
> Greg,  
>  
> Myron should not have to explain intent until true offense, not pc offense,  
> has been indicated. By your intent we should disallow reproductions of bible  
> text because they slur certain pc categories.  
>  
> Dj

HELLO??

You sure you guys have the right newsgroup?

--  
brett@micromed.com (brett miller)

-----  
Date: Sun, 12 Dec 1993 01:57:37 GMT  
From: agate!howland.reston.ans.net!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!  
osuunx.ucc.okstate.edu!ki5zw!corey@ames.arpa  
Subject: TM732A packet hookup???  
To: info-hams@ucsd.edu

does anyone know how to make a packet cable for the  
kenwood TM 732A? I would sure appreciate some information  
on this...

Thanks in advance...

Corey Croci AB5IM  
corey@ki5zw.ampr.org

-----  
Date: 12 Dec 93 10:36:52 GMT  
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!moe.ksu.ksu.edu!abc.ksu.ksu.edu!  
news@network.ucsd.edu



Subject: Updated Call Sign allocations  
To: info-hams@ucsd.edu

Hello all! I was wondering if anyone happens to have an updated copy of the call sign allocations taking into account all the world's changes over the last several years....the copy I have access to is a older copy, and still has the two Germany's separated. If anyone has this available, or knows where it might be available via FTP, please let me know, via either e-mail or posting to this group...Thanks!

73 DE NOYAX

```
-----  
Jeremy L. Utley          | jlu@cygnus.cis.ksu.edu  
Computing & Infomation Sciences | cbr600@matt.ksu.ksu.edu  
Student                  | cbr600@ksuvm.bitnet  
Kansas State University  | bxth85a (Prodigy)  
A.S. Comp. Sci. & Acctg.  | NOYAX@N00ER.#NEKS.KS.USA.NA (Packet Radio)  
-----
```

```
-----  
Date: 9 Dec 93 08:33:53 EST  
From: sgiblab!swrinde!gatech!howland.reston.ans.net!math.ohio-state.edu!  
magnus.acs.ohio-state.edu!cis.ohio-state.edu!pacific.mps.ohio-state.edu!  
ohstpy.mps.ohio-state.edu!miavx1!miavx3.mid.@pacbell.com  
Subject: Upgrading from old tech liscense  
To: info-hams@ucsd.edu
```

In article <CHLG0M.9ux@hub.cs.jmu.edu>, blaziec@hub.cs.jmu.edu (Christopher Blazie) writes:

> I earned my technician liscense about 8 or 9 years ago. I became  
> relatively inactive in amateur radio for quite a while, and now  
> I'm getting back into it. When I had my novice liscense, one had  
> only to take the written exam to become a tech; the written exam  
> was the same as the general-class exam. So, when a technician  
> wanted to upgrade to general, all he/she had to do was pass the  
> 13wpm code test. Now, of course, things have changed...I've heard  
> that those of us who had a tech liscense were grandfathered into  
> the new system, i.e. we can still take take the 13wpm test and be  
> upgraded.

That is correct. As long as \*you\* can prove you held  
a valid Technician license prior to 3/21/87, the only  
requirement (to upgrade to General) is 13 WPM.

> However, when I recently received a new liscense in the  
> mail (just a replacement for the old one, which was lost), there

> was no designation that I could see that would set my lisense  
> apart from any other (newer) tech liscense.

There is no different designation. An expired license,  
issued prior to 3/21/87 is acceptable proof. A copy of  
that license must accompany the upgrade 610 as well.

> Can someone shed  
> some light on the new regulations? I've heard bits and pieces,  
> but not enough to get a clear idea of what the rules are.  
>  
> Thanks!  
>  
> - Chris/KA3PUF  
>

Go for it Chris ... but don't stop 'till you hit Extra!

73 >< Carl  
K8NHE

-----  
Date: Fri, 10 Dec 1993 13:12:06 GMT  
From: netcomsv!netcom.com!greg@decwrl.dec.com  
To: info-hams@ucsd.edu

References <jchappel.79.755364937@sanders.lockheed.com>,  
<gregCHrsuv.3Jt@netcom.com>, <jchappel.80.755465269@sanders.lockheed.com>  
Subject : Re: Scratchi, January, 1960

In article <jchappel.80.755465269@sanders.lockheed.com>  
jchappel@sanders.lockheed.com (Joel Chappell) writes:

>  
>Greg - This is so typical of liberal behavior. Yes it was the best without  
>really flaming yer butt....

Well, gawwwllleeee. My butt's hottern' a leaky ol' still. What is this,  
the 'Hampshire Hillbillies?

>  
> Now when faced with the truthful part that I  
>wrote, and that is; this is a bit of amateur radio history and was  
>written more than 30 years ago (as pointed out to you by others), you jump  
>to another smart remark and try to raise color as an issue.

Color \*IS\* the issue, you ignoramus. Look up 'race' in the dictionary.

>Typical liberal way to squirm away from the truth...

Whatsa matter, the PC label didn't work so now you have to tag a 'liberal' label on what you can't get your mind around?

> I doubt that Myron had any other motive  
>other than to replay a bit of that history for us.

I already said that. Over, and over, and over... ...but you're so busy making mental Dymo labels that you apparently aren't able to read. Hope you read engineering specs a little better.

> What do you really know  
>about amateur radio Greg? Do you have a ticket?

Use the call-sign server. I did, and found I've been an active ham longer than it suggests you have. You can find the same information, at least if you can read the FAQs well enough to glean it. By the way, how is your ad hominem argument relevant?

>I have not seen your callsign here.

Then you don't read the net much. No, unlike you, I don't have to put all kinds of irrelevant stuff in a .sig file.

> What do you know about life in the USA 40 to 50 years ago?

Are you asking for a transcript?

>What do you know about the person who originally wrote the Scratchi  
>letters? What do you know about his motives? How many other Scratchi  
>letters have you read?

I'd invite you over to see my collection of old ham literature (I've been one of those wierd collectors of the stuff since before it was popular. Used to pick up QSTs at the local thrift stores.)

> The answer is nothing, not much, zero..zip.

While you're looking up 'race,' look up prejudice. Your refusal to read what's written, to label everything and move on, to answer your own questions before hearing the answer demonstrates an inclination towards prejudice. One wonders how you've managed to have any success as an engineer. Then again, it is defense...

> No, you  
>just jumped in with your new age PC crap and raised a lot of issues without  
>doing the research.

Actually, I raised one issue.

> Too many folks use this political correctness to white  
>wash the truth Greg....and that's what I object to.

So why don't you stop painting the truth with a white-wash label you  
call 'political correctness,' and let it stand for what it is... or  
isn't?

> And they use it to  
>rewrite history books and change our social values.

Yep, gotta keep them damn historians from writing all them history books  
all the time. The ones we had wuz good enough. Then along comes all these  
liberals, wantin' to change our social values. Out marching through  
Alabama...

> Now in typical liberal  
>fashion you have me stereo-typed as some sort of bigot.

You've established yourself quite nicely without need of any stereotypes.

> Why I might even be  
>black for all you know,

If you are, you aren't very good at it.

> or a member of some ethnic group

...which wouldn't stop you from being racist.

> ....but you're so  
>cocked sure about what I found funny about Scratchi..and it can't be good.

I have no idea what you find funny about it. I know what I find funny,  
and not funny, about it. Seems like that in addition to knowing what  
I know you think that you know what I know and what I think you know,  
you know?

>Well Greg..you have no idea what I believe, what I know, what I've done..how  
>well I do it...

You're right. I can only infer from your demonstrated ability to reason  
in a straight line.

Greg

-----  
Date: 12 Dec 93 17:25:21 GMT  
From: ogicse!emory!kd4nc!ke4zv!gary@network.ucsd.edu  
To: info-hams@ucsd.edu

References <CHsMuy.DJH@boi.hp.com>, <1993Dec10.154257.16572@ke4zv.atl.ga.us>, <btobackCHw3wH.99J@netcom.com>  
Reply-To : gary@ke4zv.atl.ga.us (Gary Coffman)  
Subject : Re: Receive broadcast FM on 2m mobile antenna?

In article <btobackCHw3wH.99J@netcom.com> btoback@netcom.com (Bruce Toback) writes:

>In article <1993Dec10.154257.16572@ke4zv.atl.ga.us> gary@ke4zv.atl.ga.us (Gary Coffman) writes:

>>Note, a center of roof mount will still work better than the cowl  
>>mount, but [the combined AM/FM/comm antenna] is better than  
>>on-glass or magmount expedients.

>

>I have wondered about that. I was about to buy an on-glass dual-band antenna  
>because a sunroof pretty much precludes center-of-roof mounting, and I saw  
>that the claimed antenna gain figures for such antennas were quite respectable.  
>However, assumed that the gain claimed included the loss associated with  
>the mount. Is this not the case? How much loss is associated with the  
>on-glass mount, assuming that the inside portion is properly grounded?

Ok, this definitely falls into the "your mileage may vary" category.  
I've been very unhappy with the results of using on-glass mount antennas while some others have claimed satisfactory results. Let's look at the theory of these antennas a bit to see if we can pinpoint potential problem areas.

On-glass antennas are fed at a voltage node by a capacitive coupling made up of the antenna foot, the auto glass, and a small box attached to the inner side of the glass. Now to have the antenna end be a voltage node, the antenna has to be an even multiple of 1/4 wave electrically at the frequency of interest. This is usually done with a physical halfwave rod which also has the charm that it doesn't require a groundplane to function properly. Since the auto glass isn't well characterized, and every individual installation is likely to be different, the inner box usually has an adjustment to vary the capacitance for a particular installation. This is usually a "flapper" capacitor bent closer or further from the glass with a nylon cam. The antenna rod is usually slightly longer than a halfwave so it can be shortened by the capacitance to resonance, a series LC circuit.

Now since this is a high impedance point, we'd normally expect the tuning to be quite sharp, but it usually isn't. In trying to find out

why not, we discover one of the problem areas of on-glass antennas. That's the usually poor decoupling of the coax shield from the antenna currents. This results in a hot shield, RF in the cabin, and a poor resultant antenna pattern. The reason there is poor decoupling is that the "matchbox" is equipped with a wire and little metal tab that's supposed to "ground" the shield to the auto body. Unfortunately, this doesn't do much good. That's because (1) we're using an antenna that doesn't work against ground so this isn't a virtual short at VHF/UHF, and (2) because the radio usually isn't well grounded to the body either in today's plastic dash cars so that the return likely is via the power wiring to the battery and then to the body. So we've got a nasty ground loop that includes the coax shield and the window frame. The resultant antenna pattern is unlikely to be omni, unlikely to have it's major lobe in the horizontal plane, and certainly will have less gain than a 5/8 wave antenna mounted securely through the center of the top.

The other concern with on-glass antennas is physical. They do tend to fall off or get knocked off more frequently than a thru-hole mounted antenna. As an example of both problems, I was using an Avanti on-glass antenna on 2 meters in a Chevy Monza. One night as I was driving down the interstate the rod fell off. I didn't notice, and the fellows with whom I was talking didn't notice. That's because the coax in the cabin continued to be the primary radiator. Note that the dashboard tach always noticed when I was transmitting by jumping to 6000 RPM any time I keyed down, whether the rod was in place or not.

As I said in the beginning, your mileage may vary, but I'm not going to bother with on-glass ham antennas anymore. I either drill the hole, or use a magmount expedient.

Gary

--

Gary Coffman KE4ZV	I kill you,	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	You kill me,	uunet!rsiatl!ke4zv!gary
534 Shannon Way	We're the Manson Family	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-sorry Barney	

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End of Info-Hams Digest V93 #1456

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